

CLAIMS:

1. An electroacoustic transducer (1)
with a transducer axis (2) and
comprising a membrane (8), which membrane (8) is arranged parallel to the
transducer axis (2) so as to be oscillatory, and
5 comprising a magnet system (14), which magnet system (14) is equipped with
two magnet-system components (16, 18), which magnet-system components (16, 18) bound
an air gap (20), and
comprising a moving coil (29), which moving coil (29) is, in part, arranged in
the air gap (20) and is connected to the membrane (8), and
10 comprising a circuit module (23), which circuit module (23) is equipped with a
circuit frame (30) and at least one circuit component (31) of a transducer circuit, mounted on
the circuit frame (30),
wherein the magnet system (14) is arranged in an annular shape and encloses
an inner space (22), which inner space (22) is accessible from outside the magnet system (14)
15 during production of the transducer (1) and before the circuit module (23) is mounted, and
wherein the at least one circuit component (31) is arranged on a first carrier
surface (32) of the circuit frame (30) which first carrier surface (32) faces the membrane (8),
and in the inner space (22) of the magnet system (14).
- 20 2. An electroacoustic transducer (1) as claimed in claim 1, wherein just one
single circuit component (31) is provided, which is formed by an integrated circuit (31)
connected to circuit frame (30), which integrated circuit (31) forms the transducer circuit.
- 25 3. An electroacoustic transducer (1) as claimed in claim 2, wherein the integrated
circuit (31) is embedded in a plastic jacket (33) and wherein two connection contacts (34) are
provided on the plastic jacket (33), each of which connection contacts (34) is connected to a
moving-coil contact (25).

4. An electroacoustic transducer (1) as claimed in claim 1, wherein four connecting contacts (36), each having the shape of an annular sector, are provided on a second carrier surface (35) of the circuit frame (30) which second carrier surface (35) faces away from the membrane (8).

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5. An electroacoustic transducer (1) as claimed in claim 5, wherein the circuit module (23) is of a design that can be removed without separate tools.

6. An electroacoustic transducer (1) as claimed in claim 1, wherein the transducer
10 (1) has a pot-shaped housing (3) wherein, in the direction of the transducer axis, its height has a value between 2.0 mm and 5.0 mm and its diameter perpendicular to the direction of the transducer axis has a value between 6.0 mm and 20.0 mm.